

Exhibit E



Information Services Division

PCG Systems & Operations Systems / ASR

PaineWebber

Online Trade Processing & EDGE Online Trading

Alla Turetsky

&

Stuart Breslow

March 10, 1999

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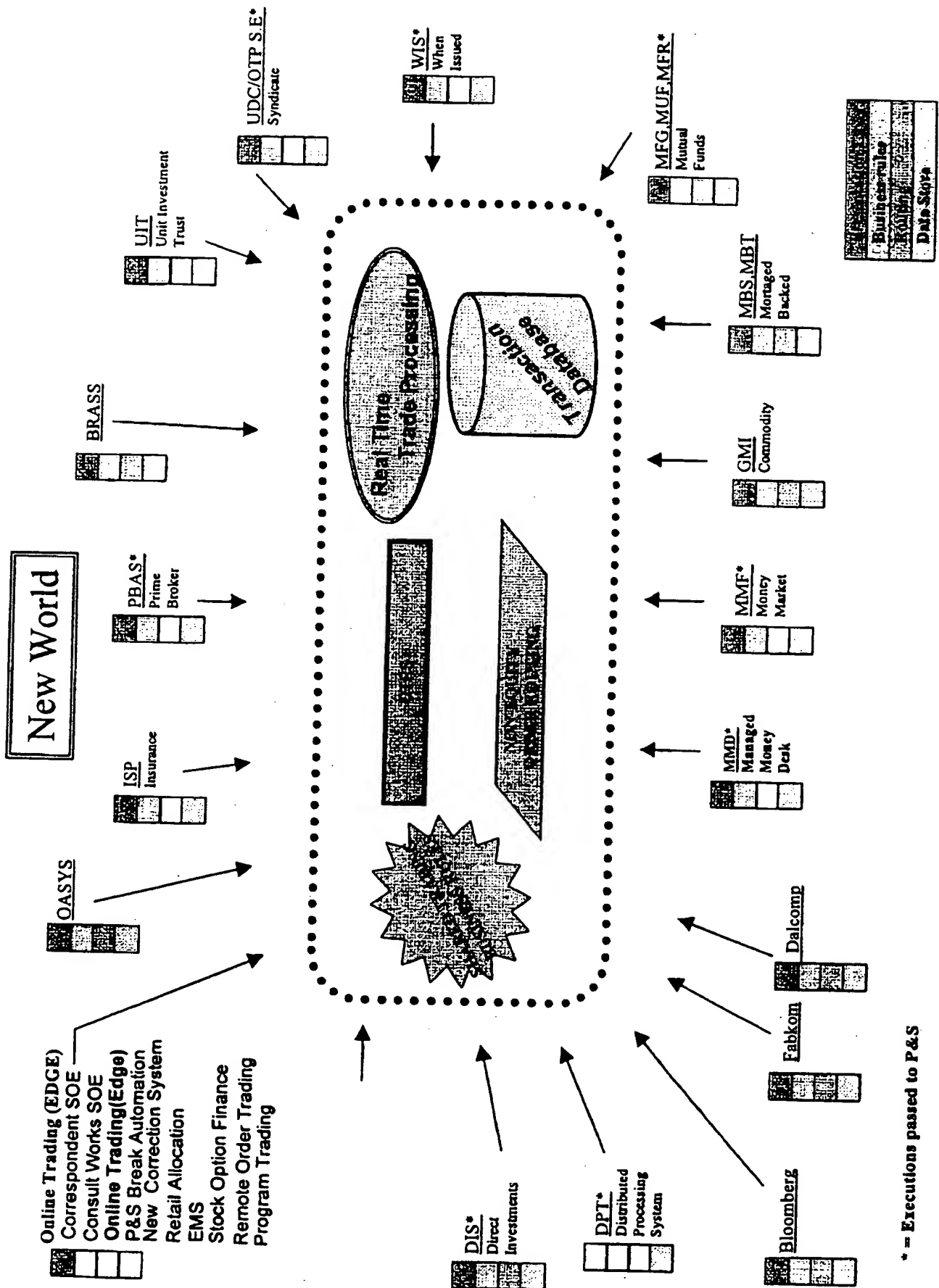
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Online Trade Processing Overview

- Suite of Shared Business Rules
 - Foundation for future processing applications
 - Result of ASR Architectural Design
- Supports Platform Independent Clients/Presentation Layers
- Allows viewing and correcting orders through other than originating systems (ie. BOE, DORS)
- Provides for Synchronous and Asynchronous connections
 - via MQ - asynchronous, guaranteed delivery
 - via ECI - synchronous
- Provides Customizable Business Rules and Validations



EDGE Online Trading Product Overview

What it is:

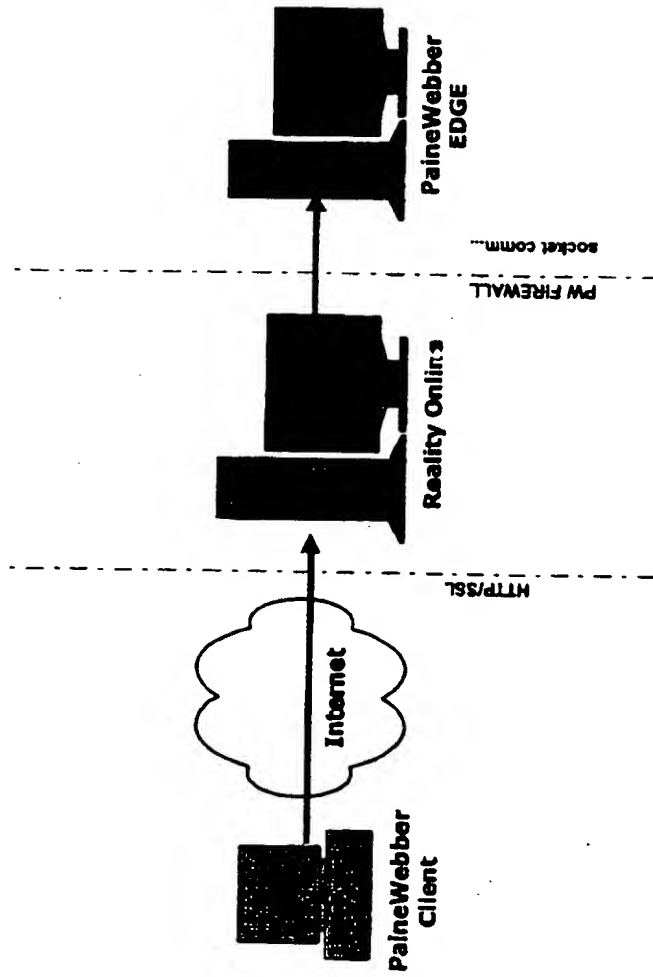
- Web-Based Client Order Entry System
- Incorporated into PaineWebber EDGE
- Offers Convenience to Clients
- Complements Client ↔ Financial Advisor Relationship
- Phase I
 - Equities Only
 - Eligibility - Premier Asset Account Clients

What it isn't:

- Discounted Commission Trading
- Tool for Day Trading
- Trading Away from Financial Advisor

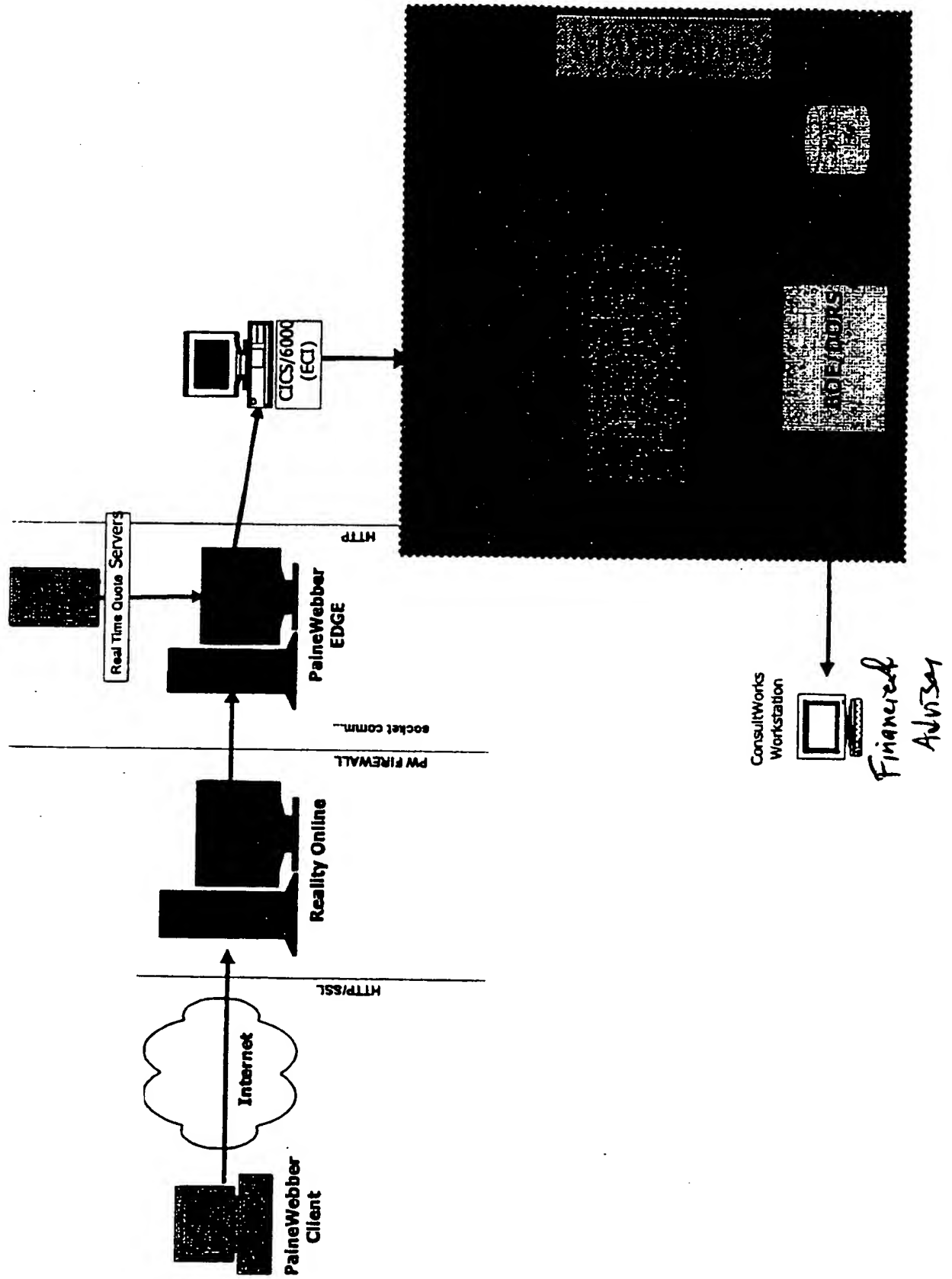
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EDGE Online Order Entry



EDGE Online Order Entry

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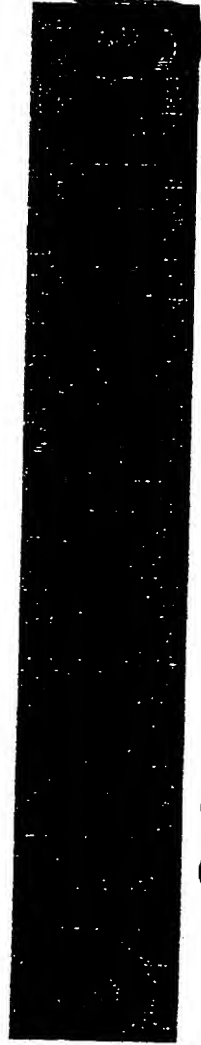




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2 Projects in One

**EDGE
Order Entry**

**Online Trade
Processing**



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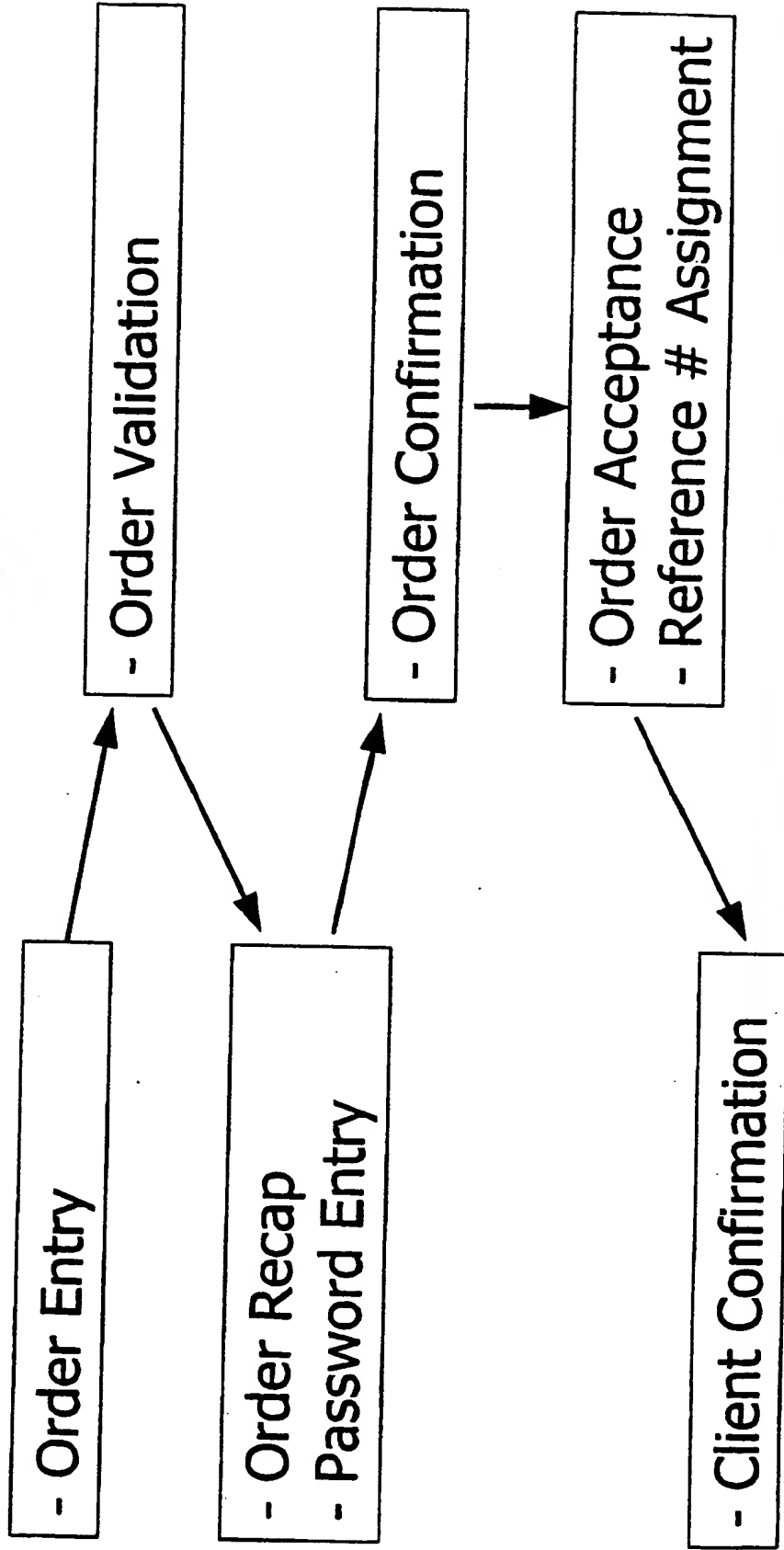
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The Process

Client

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Demonstration



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Timeline & Next Steps

EDGE Online Trading

- Phase I
 - Equities Only
 - Eligibility - PAA Clients
 - 24x7 Availability
 - Release - 3Q99
- Phase II
 - Proprietary Mutual Funds
 - Release - TBD
- Phase IIa
 - Fixed Income
 - Release - TBD

Online Trade Processing Core

- Add support for additional products
- Integrate into Transaction Database
- Add Presentation Layers
 - Phase I - EDGE
 - Phase II - BOLT
 - Phase III - ConsultWorks v2 OE



OFX - Quicken and Money Account Information Download

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STOCK ORDER ENTRY

<input type="radio"/> Market <input checked="" type="radio"/> Limit <input type="radio"/> Stop <input type="radio"/> Stop/Limit		Order Type: <input type="text" value="Market"/>	Stop Price: <input type="text" value="30"/>	Limit Price: <input type="text" value="30"/>	Qualifier: <input type="text" value="None"/>
Symbol: <input type="text" value="AAPL"/>		Transaction: <input checked="" type="radio"/> Buy <input type="radio"/> Sell			
Direction: <input type="text" value="Buy"/>		Status: <input type="text" value="54"/>			

Question: Is this transaction a result of a recommendation by your Financial Advisor or based upon information supplied by your Financial Advisor?
☒ Yes ☐ No

Viewed on Wed Mar 3 08:23:21 1999 Eastern Time

If you have any questions about this site, please go to the Client Service area.
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PolioWebinet FIVE - Microsoft Internet Explorer

http://beta.pwedge.com/Member/PrintHome.nhtml

HELP

Stock Wizard

Once you enter the order if correct, enter your Trading Password and click Send Order. See Help for more information.

SUCCESSFUL REQUEST

SUCCESSFUL VALIDATION

COMPAR COMPUTER									
Symbol	MSFT	May 03, 1999	11:53 AM ET	Symbol	MSFT	May 03, 1999	11:53 AM ET	Symbol	MSFT
Open	32.6/8	Open	32.7/16	Open	32.6/8	Open	32.7/16	Open	32.6/8
Ask Price	32.11/15	Ask Price	32.11/15	Ask Price	32.11/15	Ask Price	32.11/15	Ask Price	32.11/15
Day's High	32.7/8	Day's High	32.7/8	Day's High	32.7/8	Day's High	32.7/8	Day's High	32.7/8
Change	+0.13/16	Change	+0.13/16	Change	+0.13/16	Change	+0.13/16	Change	+0.13/16
Tick	1/8	Tick	1/8	Tick	1/8	Tick	1/8	Tick	1/8
Type	Stock	Type	Stock	Type	Stock	Type	Stock	Type	Stock
52 Wk High	51.4/16	52 Wk High	51.4/16	52 Wk High	51.4/16	52 Wk High	51.4/16	52 Wk High	51.4/16
P/E Ratio	0.00	P/E Ratio	0.00	P/E Ratio	0.00	P/E Ratio	0.00	P/E Ratio	0.00
Exchange	NYSE	Exchange	NYSE	Exchange	NYSE	Exchange	NYSE	Exchange	NYSE
Yield	0.25	Yield	0.25	Yield	0.25	Yield	0.25	Yield	0.25

Enter your Trading Password:

www.palmwebbhot.com/Member/PalmWebbhot.html

Page 3 of 4

Stock Wizard

Order Sent!

Thank you for placing your order over the PalmWebbhot EDGE.

There is not a legal confirmation of your order. Instead it is a completed recap of your order. Upon execution, an actual trade confirmation will be mailed to you. If you can contact your Financial Advisor for the confirmation that the order has been executed. Please use the Order Number below if you call PalmWebbhot about this transaction. For more information about the data shown here, see page 4.

SUCCESSFUL REQUEST SUCCESSFUL CONFIRMATION

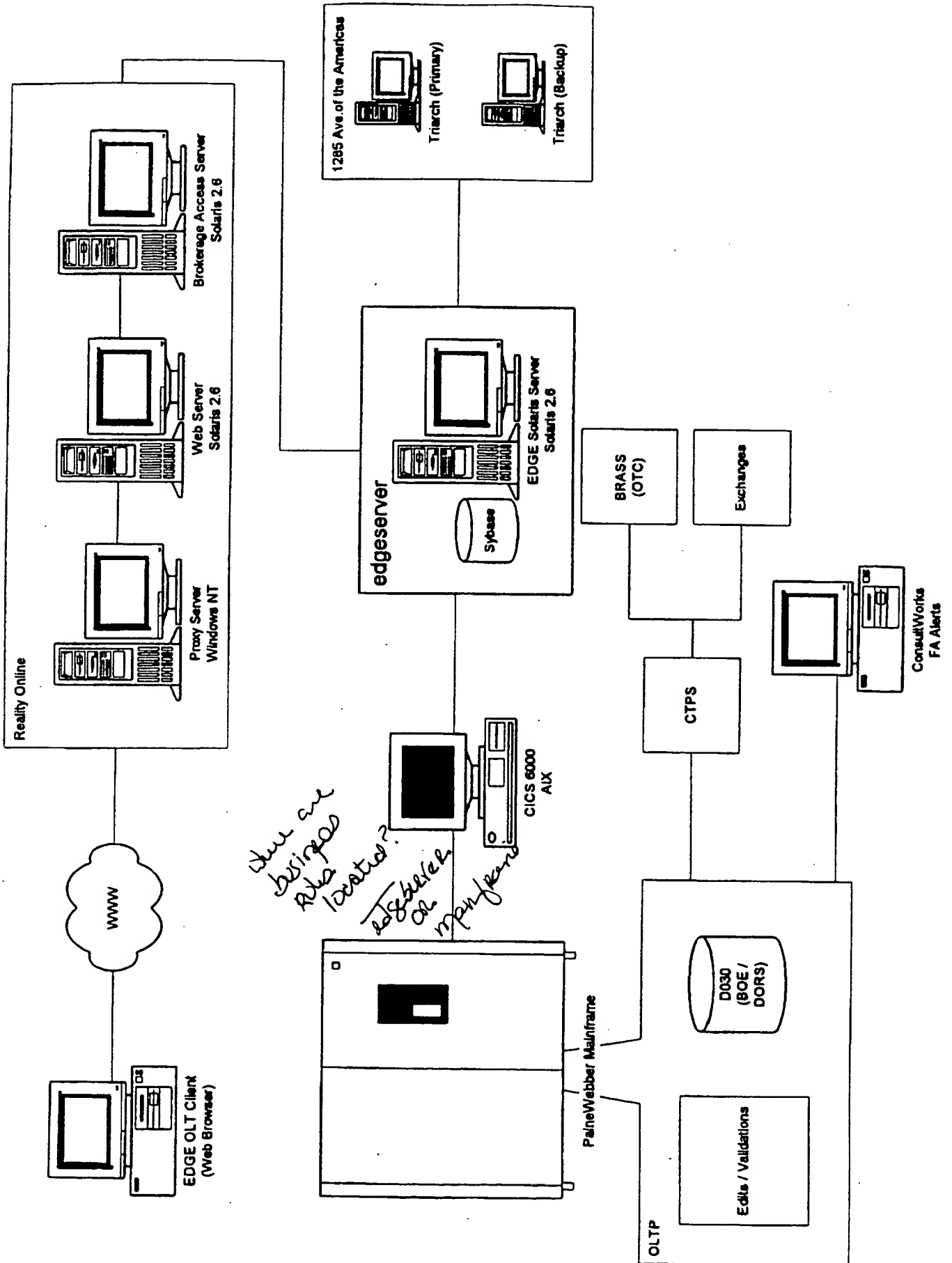
Order Recap

EDGE Order Date/Time
03/03/1999 11:43:00 AM

Transaction	BUY	Duration	GTC
Security	ICPO	Order Type	LIMIT
Shares	100	Qualifier	DNI
Unit Price	30.000000	Stop Price	

Please go to the Transaction Summary page to see the order status

Created on Wed Mar 3 11:43:15 1999 Eastern Time



EDGE
ECL Call Parameters
(program=OLTP1000,
transid=OLUO,
data=Edge BUY 100 IBM ...)

